

10/01/01

Please type a plus sign (+) inside this box → ☐

PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No. SHUTT-1 C1

First Inventor Reuben MATALON et al.

Title ASPARTOACYLASE GENE, PROTEIN, AND METHODS OF  
SCREENING FOR MUTATIONS ASSOCIATED WITH CANAVAN  
DISEASE

Express Mail Label No.

## APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.  
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 50]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to sequence listing, a table, or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 13]
5. Oath or Declaration [Total Pages 3]
  - a. ☐ Newly executed (original or copy)
  - b. ☒ Copy from a prior application (37 CFR 1.63 (d))  
(for a continuation/divisional with Box 18 completed)
  - i. ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting inventor(s)  
named in the prior application, see 37 CFR  
1.63(d)(2) and 1.33(b).
6. ☒ Application Data Sheet. See 37 CFR 1.76

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
  - a. ☐ Computer Readable Form (CRF)
  - b. Specification Sequence Listing on:
    - i. ☐ CD-ROM or CD-R (2 copies); or
    - ii. ☒ paper
  - c. ☒ Statements verifying identity of above copies

## ACCOMPANYING APPLICATIONS PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 C.F.R. §3.73(b) Statement ☐ Power of  
(when there is an assignee) Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure ☐ Copies of IDS  
Statement (IDS)/PTO-1449 Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
16. ☐ Request and Certification under 35 U.S.C. 122  
(b)(2)(B)(i). Applicant must attach form PTO/SB/35  
or its equivalent.
17. ☐ Other: \_\_\_\_\_

18. If a **CONTINUING APPLICATION**, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No: 08/128,020 / 9/29/93

Prior application information: Examiner G. Bugalsky

Group / Art Unit: 1814

For **CONTINUATION** or **DIVISIONAL APPS** only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 17. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label



23599

PATENT TRADEMARK OFFICE

or ☐ Correspondence address below

Name

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Millen, White, Zelano & Branigan, P.C.

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Anthony J. Zelano

Registration No. (Attorney/Agent)

27,969

Signature

Date

October 1, 2001

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10/01/01

1059 U.S. PTO

PTO/SB/17 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

**Complete if Known**

Application Number Cont. of USSN 08/128,020

Filing Date October 1, 2001

First Named Inventor Reuben Matalon et al.

Examiner Name G. Bugaisky

Group / Art Unit 1814

Attorney Docket No. SHUTT-1 C1

TOTAL AMOUNT OF PAYMENT (\$) \$370.00

**METHOD OF PAYMENT (check one)**

- 1.
- ☐
- The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit  
Account  
Number

13-3402

Deposit  
Account  
Name

Millen, White, Zelano &amp; Branigan, P.C.

- ☒
- Charge Any Additional Fee Required
- 
- Under 37 CFR 1.16 and 1.17
- 
- ☒
- Applicant claims small entity status.
- 
- See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☒ Check ☐ Credit card ☐ Money  
Order ☐ Other**FEE CALCULATION**

## 1. BASIC FILING FEE

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	\$370.00
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1)

(\$)  
\$370.00

## 2. EXTRA CLAIM FEES

Total Claims	14	-20**	=	0	X	9	=	0
Independent Claims	3	-3**	=	0	X	42	=	0
Multiple Dependent					X		=	0

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	** Reissue independent claims over original patent
110	18	210	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$)  
0

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)**

## 3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1,440	218	720	Extension for reply within fourth month	
128	1,960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,280	241	640	Petition to revive - unintentional	
142	1,280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	130	123	130	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$)  
0**SUBMITTED BY****Complete (if applicable)**

Name (Print/Type)

Anthony J. Zelano, Esq.

Registration No. Attorney/Agent

27,969

Telephone

703.243.6333

Signature

Date

October 1, 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Reuben MATALON et al.

Serial No.: TBA

Examiner: G. Bugaisky

Filed: October 1, 2001

Group Art Unit: 1814

For: APARTOACYLASE GENE, PROTEIN, AND METHODS OF SCREENING FOR  
MUTATIONS ASSOCIATED WITH CANAVAN DISEASE

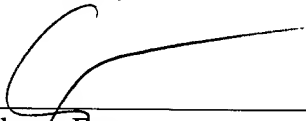
**REQUEST FOR TRANSFER OF CRF**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The paper copy of the Sequence Listing for this application (Cont. of USSN 08/128,020), is identical to the computer readable copy of the Sequence Listing filed in application, 08/128,020 on 11/29/93. In accordance with 37 CFR 1.821(e), please use the last-filed computer-readable form filed in that application as the computer readable form for the instant application. It is understood that the Patent and Trademark Office will make the necessary change in application number and filing date for the instant application. A paper copy of the Sequence Listing is included in a separately filed amendment, for incorporation into the specification.

Respectfully submitted,

  
\_\_\_\_\_  
Anthony J. Zelano, Esq.  
Atty. Reg. No. 27,969  
Attorney/Agent for Applicant(s)

**MILLEN, WHITE, ZELANO  
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Attorney Docket No.: SHUTT-1 C1

Filed: October 1, 2001

09965807 "100101"

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :  
Reuben MATALON et al. : BOX SEQUENCE  
Serial No.: 08/128,020 :  
Filed: September 29, 1993 :

jc997 U.S. PTO  
09/965807  
10/01/01

For: ASPARTOACYLASE GENE, PROTEIN, AND METHODS OF SCREENING  
FOR MUTATIONS ASSOCIATED WITH CANAVAN DISEASE

RESPONSE TO NOTICE TO COMPLY  
WITH SEQUENCE DISCLOSURE REQUIREMENTS

Honorable Commissioner of  
Patents and Trademarks  
Washington, D.C. 20231

SIR:

In response to the Notice to Comply with Sequence Disclosure Requirements dated July 23, 1993, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Page 6, line 1: After "nucleotide", insert -- (SEQ ID NO:1) -- and  
After "acid", insert -- (SEQ ID NO:2) --;  
line 11: After "(HLASP)", insert -- (SEQ ID NO:2) --;  
line 12: After "(BASPCDN)", insert -- (SEQ ID NO:4) --;  
line 16: After "sequence", insert -- (SEQ ID NO:3) --; and  
line 35: After the sequence, insert -- (SEQ ID NO:5) --.

Page 7, line 1: Before "and", insert -- (SEQ ID NO:6) --;  
line 2: Before "primers", insert -- (SEQ ID NO:7) --;  
line 13: After the sequence, insert -- (SEQ ID NO:5) --;  
line 15: Before "and", insert -- (SEQ ID NO:8) --; and  
line 16: Before "primers.", insert -- (SEQ ID NO:9) --.

Page 9, line 4: Before "and", insert -- (SEQ ID NO:10) -- and  
Before "in", insert -- (SEQ ID NO:11) --; and  
line 10: Before "sequence", insert -- (SEQ ID NO:12) --.

Between Pages 25 and 26: Insert the attached new pages 25i-25xix.

Page 27, line 1: After the sequence, insert -- (SEQ ID NO:13) --;  
line 2: After the sequence, insert -- (SEQ ID NO:14) --;  
line 3: After the sequence, insert -- (SEQ ID NO:15) --; and  
line 4: After the sequence, insert -- (SEQ ID NO:16) --.

Page 28, line 3: Before "and", insert -- (SEQ ID NO:17) --;  
line 4: After the sequence, insert -- (SEQ ID NO:18) --; and  
line 16: After the sequence, insert -- (SEQ ID NO:19) --.

Page 30, line 4: After the sequence, insert -- (SEQ ID NO:5) --;  
line 6: After the sequence, insert -- (SEQ ID NO:20) --;  
line 7: After the sequence, insert -- (SEQ ID NO:21) --;  
line 12: After the sequence, insert -- (SEQ ID NO:6) --;  
line 13: After the sequence, insert -- (SEQ ID NO:7) --;  
line 20: After the sequence, insert -- (SEQ ID NO:8) --; and  
line 21: After the sequence, insert -- (SEQ ID NO:21) --.

Page 31, line 1: After the sequence, insert -- (SEQ ID NO:22) --;  
line 2: After the sequence, insert -- (SEQ ID NO:23) --;  
line 26: After "GGTHGNE,", insert -- (SEQ ID NO:10) -- and  
After "DCTV", insert -- (SEQ ID NO:24) --;  
line 27: After "VNEAAYY", insert -- (SEQ ID NO:11) --; and  
line 28: After "GXXHG/AXE/D,", insert -- (SEQ ID NO:25) --,  
After "DXXF/V", insert -- (SEQ ID NO:26) -- and  
After "VXEXXXY", insert -- (SEQ ID NO:27) --.

**IN THE CLAIMS:**

10. (Amended.) A nucleic acid molecule of claim 8, having the sequence  
CTTCTGAATTGCAGAAATCA (HASP9) (SEQ ID NO:20) or  
GTAAGACACCGTGTAAGATG (HASPC7) (SEQ ID NO:21).

11. (Amended.) A nucleic acid molecule of claim 9, having the sequence  
F→CCGGGATGAAAATGGAGAA (HASP14F) (SEQ ID NO:6) or  
R→ACCGTGTAAGATGTAAGC (HASPC7R) (SEQ ID NO:7),  
wherein F and R are M13 universal and/or reverse primer tags.

35. (Amended.) A method of claim 33, wherein the probe is selected from the sequences

CTTCTGAATTGCAGAAATCA (HASP9) (SEQ ID NO:20),

GTAAGACACCGTGTAAGATG (HASPC7) (SEQ ID NO:21),

F→CCGGGATGAAAATGGAGAA (HASP14F) (SEQ ID NO:6) or

R→ACCGTGTAAGATGTAAGC (HASPC7R) (SEQ ID NO:7),

wherein F and R are M13 universal and/or reverse primer tags.

#### IN THE DRAWINGS:

Please replace Figures 7(f) and 7(g) with the attached proposed new Figures 7(f) and 7(g).

#### REMARKS

The amendments are for the purpose of putting the application in compliance with 37 C.F.R. §1.821-§1.825, as stated in the Office Action. The proposed new Figures 7(f) and 7(g) delete extraneous amino acid sequences corresponding to computer-generated read-through of the coding sequence.

I hereby state that the content of the paper and computer readable copies of the Sequence Listing are the same.

I hereby state that the submission, filed in accordance with 37 C.F.R. §1.1821(g), herein does not include new matter.

Respectfully submitted,

\_\_\_\_\_  
Diana Hamlet-King (Reg. No. 33,302)  
Attorney for Applicants

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Filed: November 29, 1993

DHK:kdp  
kdp72:shutt1.rsp